

#### ABSTRACT OF THE DISCLOSURE

Polypeptides encoded by a continuous segment of chromosomal DNA from *E. coli* O157:H7, isolated on plasmid pSC(overlap)(ATCC No. 69648), that encodes an adhesin (SEQ ID NO:5) that mediates bacterial colonization of bovine intestines, vaccines derived therefrom, and antibodies directed against the adhesin are disclosed.

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